| subject | release 2.3 | release 3.x |
|------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| | | |
| identification (optical) | 9-pin Sub-D connector for service PC at CU EZ139 | 25-pin Sub-D connector for service PC at CU EZ139 |
| | no difference on desk recognizable | no difference on desk recognizable RAD version |
| cooling system | forced air current upwards in | forced air current downwards in |
| | - converters - high speed rotor control | - converters - high speed rotor control |
| | - fan of low voltage power supply (65/80kW only) | - fan plate underneath HT transformer (R/F only) - fan of low voltage power supply (65/80kW only) |
| options | no fluoroscopy | fluoroscopy possible, but generator must be an R/F version, RAD generators cannot be upgraded |
| systems / stands | no Thoravision or Digital Diagnost possible | |
| CU firmware | 2 hardware PROM's | flash PROM loading via service PC |
| converter | 6E converter up to version | 7E converter versions |
| | 4512 104 72302 | (converter R/F 9890 000 02772) 4512 104 72311/2/3 |
| | the very first generators had non- coded converters with spare part | 4512 104 7231 1/2/3 |
| | #'s 4512 152 04451, the above | |
| | mentioned 12NC must be ordered | |
| programming | data sets RGDVx Data Set A+B | data sets RGDVx Data Set A+B |
| | no identical format with rel 3 | no identical format with rel 2 |
| tubes | tube data file TUBE_R2.TDL must be used | tube data file TUBE_R3.TDL version 18.04.01 must be used |
| APR + film-screen combinations | no automatic assignment of APR to FSC during APR loading | during APR loading generator takes care about the FSC name or dose value |
| film-screen-combination screen | identical format, can be copied | identical format, can be copied |
| error codes | 38 errors max in error log index | 50 errors max in error log index |
| continuous rotation for 30 seconds after the last let go of the prep switch when "rotation prolongation after prep" | the anode stops once a desk button is pushed | the anode keeps rotating |
| = yes programmed | | |
| dose correction limits | max dose correction | max dose correction |
| | +/- 4 steps 25% | release 3.3 +/- 4 steps 25% |
| AEC fault exposure detection | calculation based on 10 times | release 3.5 +/- 2 steps 25% release 3.3: calculation based on |
| ALO Idali exposure detection | background mAs value | 10 times background mAs value |
| | | release 3.5: calculation based on 9.5 times background mAs value |
| APR | always present | option, may not be in at low cost |
| | | systems |
| | | don't waste time trying to get APR |
| CU Complete CMOS backup | file size about 170275kB | programmed file size about 340710kB |
| serial numbers S/N | 940001970217 | from 970218 onwards |
| exposure counter | # of exp. SF+LF of each tube | release 3.3: |
| | | # of exp. SF+LF of each tube |
| | | # of fluoro requests for R/F |
| | | release 3.5: |
| | | detailed exposure counter |
| kV_control | kV alignment only possible with | kV alignment via adjustment |
| _ | parallel resistor to R226 of EZ130 either version 50 - 65/80kW | procedure for factor for duty cycle, factor will be memorized in CU |

| subject | release 2.3 | release 3.x |
|----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| | | |
| kV_control PCB | only 4512 108 058415 for 50kW 4512 108 086614 for 65/80kW can be used | only 4512 108 090813 for 50kW 4512 108 091024 for 65/80kW can be used |
| | feedback of DC power = E_PO and E_NG only from frontal converter EQ at 65/80kW generators with 2 converters | feedback of DC power = E_PO and E_NG individually from frontal EQ and rear converter E2Q at 65/80kW generators with 2 converters |
| rotation prolongation after prep (30 seconds continuous rotation after let go of PREP) | if any of the desk buttons will be pushed the anode brakes | anode runs for 30 seconds without interrupt |
| backpanel EZ | 2 different backpanel versions 4512 108 05983 (tube housing temp. switch at EZX3:03-04) | 4512 108 09361/2 (tube housing temp. switch at EZX3:06-07) |
| | 4512 108 05984 (tube housing temp. switch at EZX3:06-07) | |
| | replacement PCB = 4512 108 09361/2 if used for 4512 108 05983 reconnect temp. switch lines to EZX3:06-07 | |
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